

JETMET SPRING 2002 PRODUCTION – Rates and Efficiency

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- Cumulative HLT trigger rates for 1,2 and 3 jet Trigger at low and high luminosity
- Comparison with old production (low luminosity)
- > Trigger efficiency on Z'(700)->2 jet (low and high luminosity)
- Rate vs Efficiency
- Conclusions

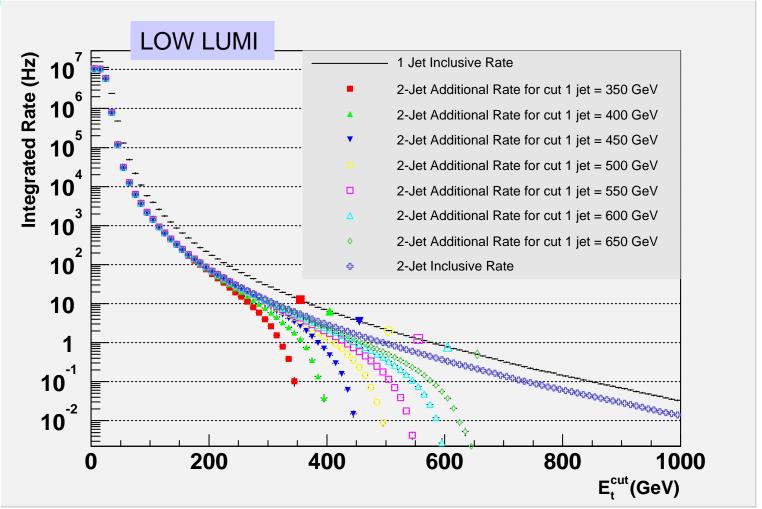


The analysis

- Spring 2002 Production (what available until two days ago)
 - HLT sample + Z'(700)->2 j
 - Pile-up and rates for L=2x10³³cm⁻²s⁻¹ (LOW L) and L=10³⁴cm⁻²s⁻¹ (HIGH L)
 - Jet cone size =0.5
 - Corrected jet energy scale with new parametrization functions
 - "Branson Weight" method for rates (it has been recalculated)
 - Salavat's HF filter with suggested parameters
 - Nominal thresholds

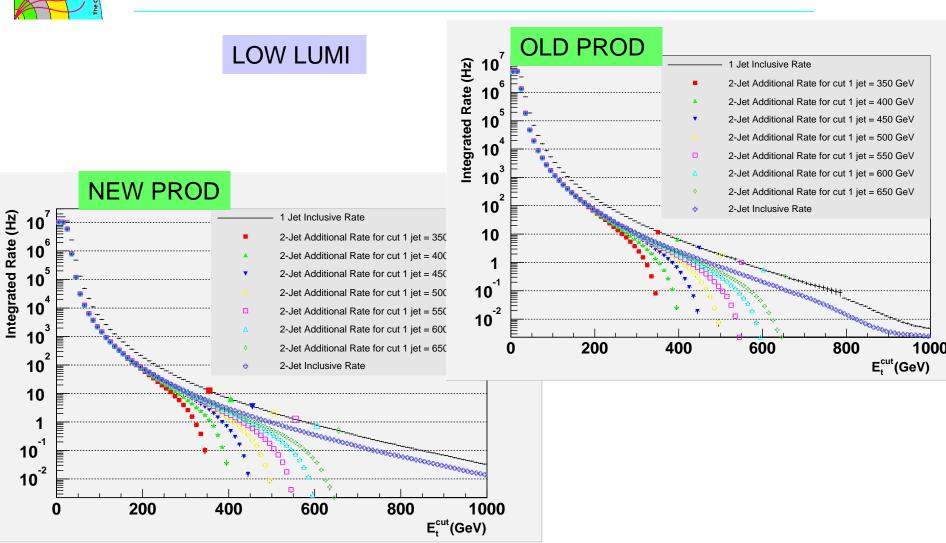


Single and (Additional) Di-jet Rates



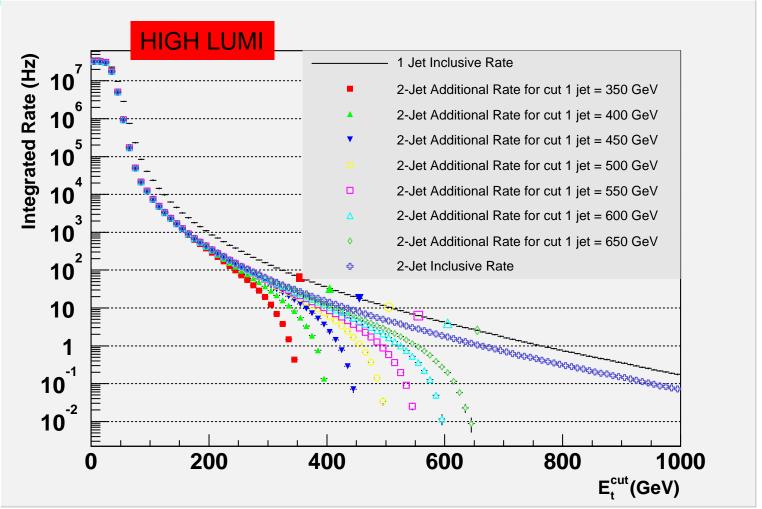


Single and (Additional) Di-jet Rates



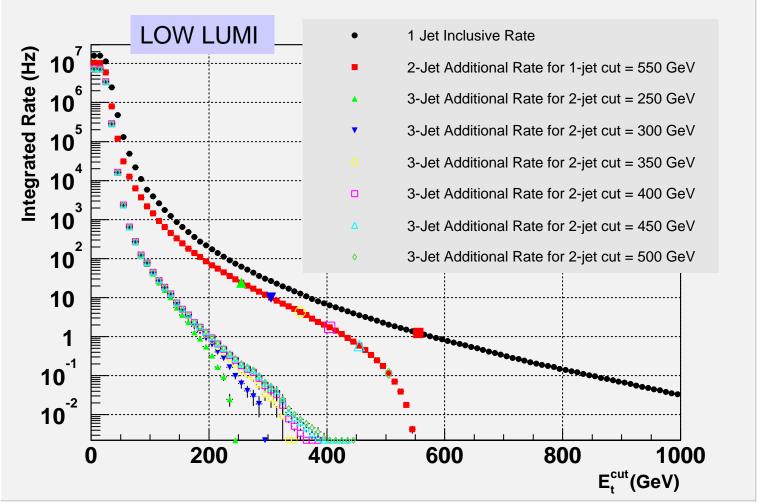


Single and (Additional) Di-jet Rates



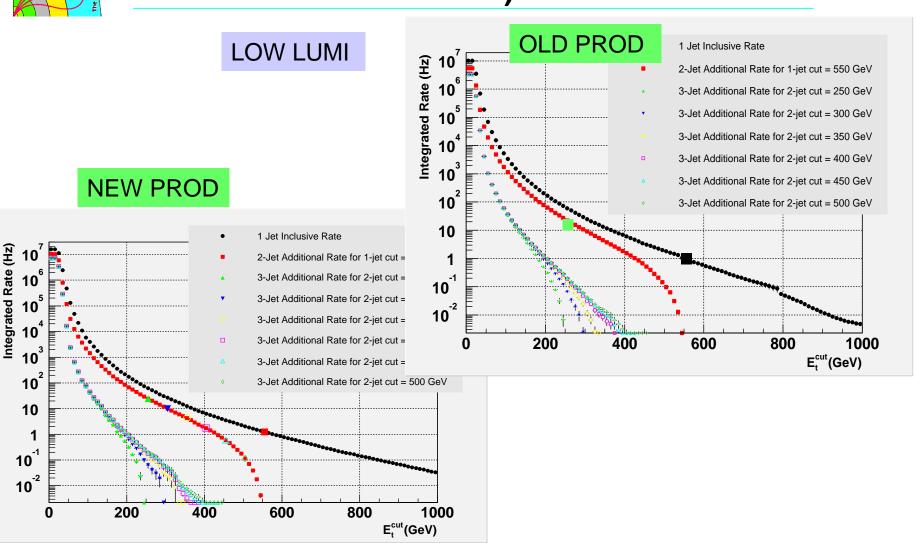


3-jet Trigger Additional Rate (1-jet cut=550 GeV)



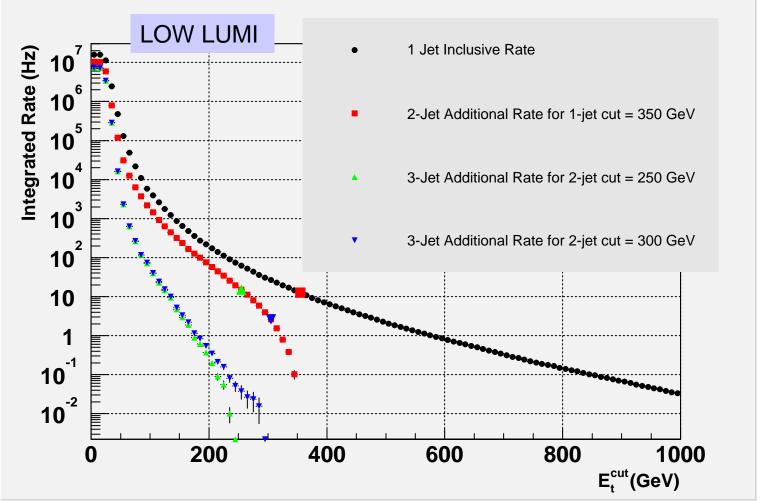


3-jet Trigger Additional Rate (1-jet cut=550 GeV)



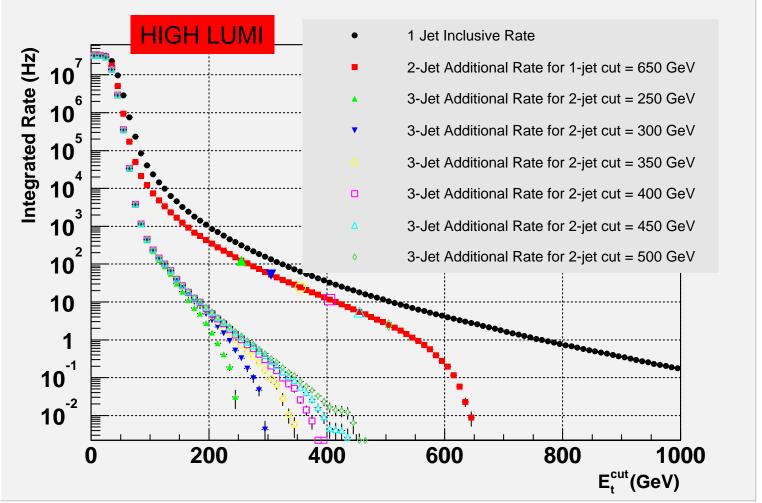


3-jet Trigger Additional Rate (1-jet cut=350 GeV)



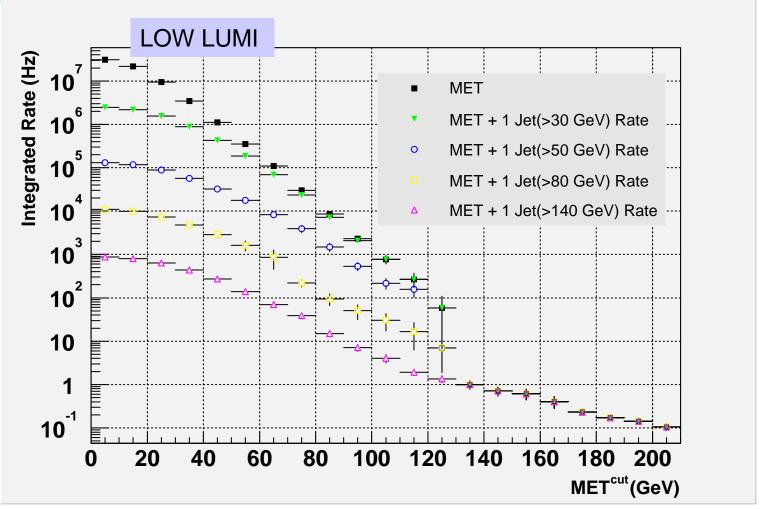


3-jet Trigger Additional Rate (1-jet cut=650 GeV)



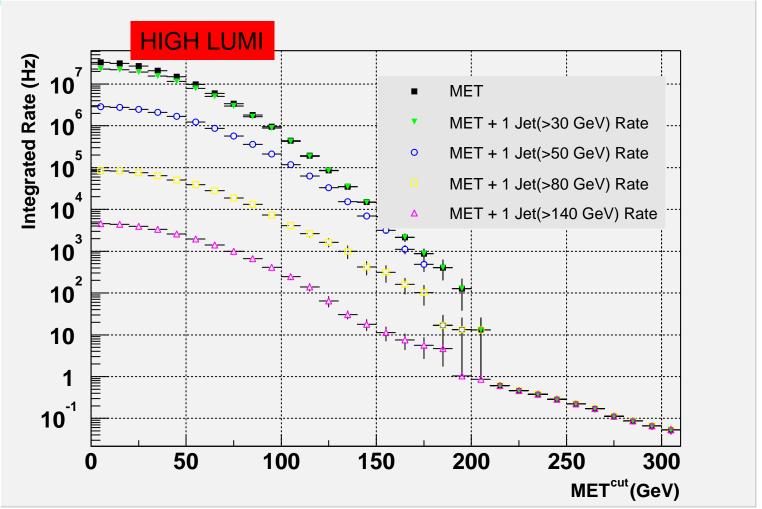


MET(3)+1 Jet Trigger Rate

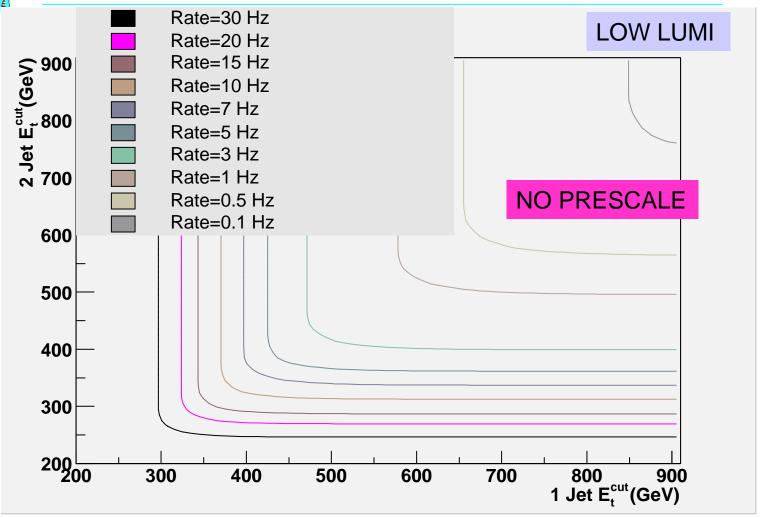




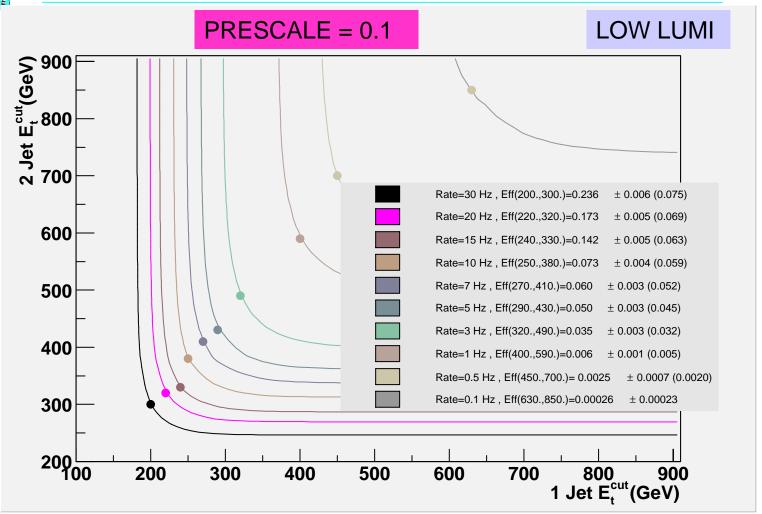
MET(3)+1 Jet Trigger Rate



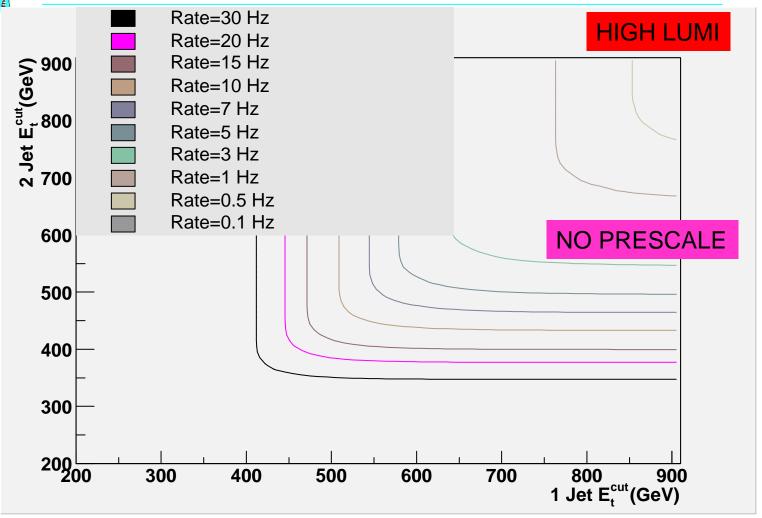




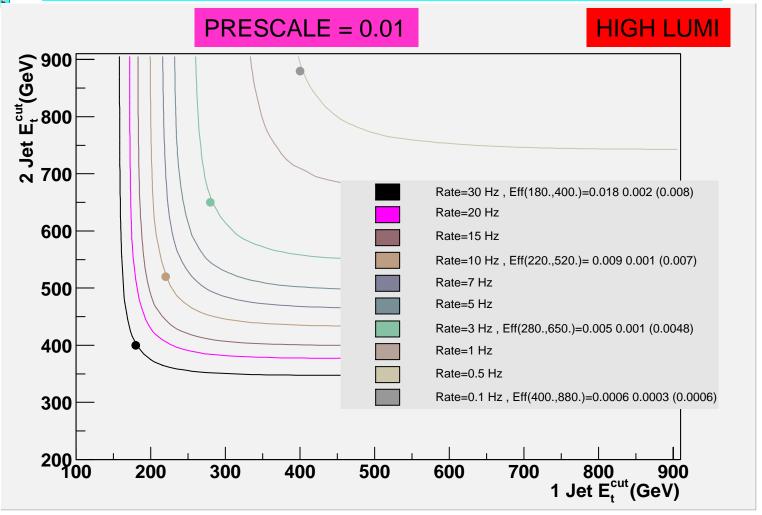


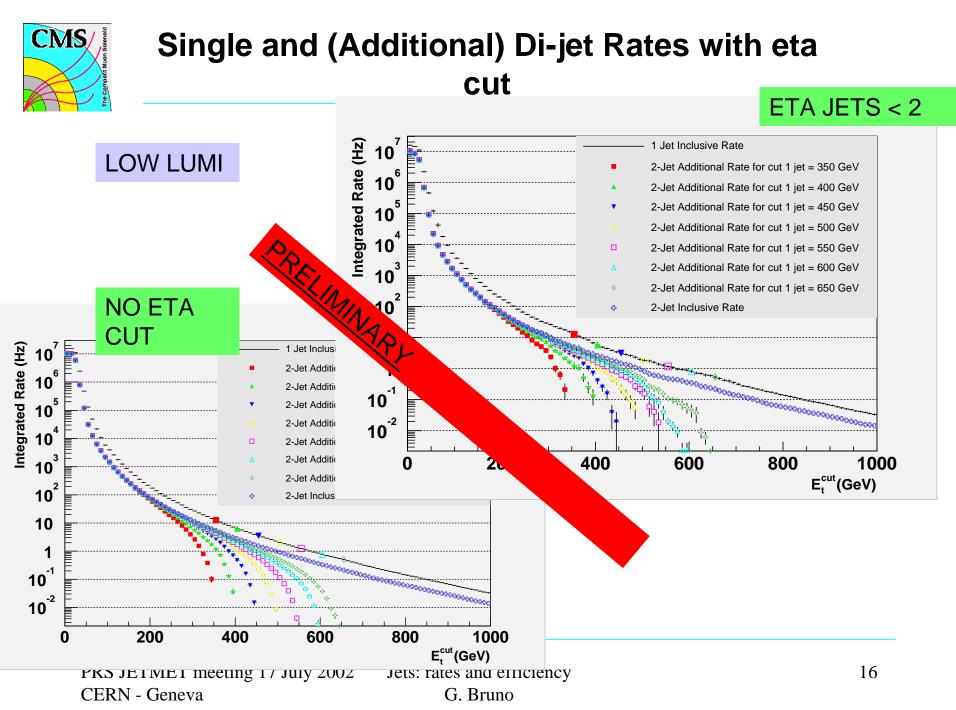














Conclusions

-The following results have been presented (no time for conclusion):
- Trigger jet rates (consistent with old production)
- MET+1Jet rates.
- IsoRate prescaled contour plots